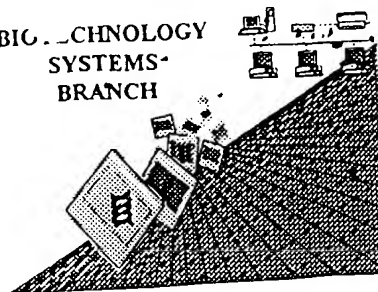


RAW SEQUENCE LISTING ERROR REPORT

BIO-TECHNOLOGY
SYSTEMS-
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/914658
Source: PCT09
Date Processed by STIC: 09/20/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST 25. Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

REST AVAILABLE COPY

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/14/658
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PT		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 _____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 _____ Variable Length.	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>.-<223> section that some may be missing.	
6 _____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>.-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>.-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>.-<223> sections for Artificial or Unknown sequences.	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: <210> sequence id number <400> sequence id number 000	
9 ✓ _____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>.-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents	
10 _____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>.-<223> section is required when <213> response is Unknown or Artificial Sequence	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 _____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

PCT09

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/914,658

DATE: 09/20/2001
 TIME: 12:36:43

Input Set : A:\000520wo.app
 Output Set: N:\CRF3\09202001\I914658.raw

3 <110> APPLICANT: ARTEMIS PHARMACEUTICALS GmbH
 5 <120> TITLE OF INVENTION: Stable Recombinant Influenza Viruses Free of Helper
 6 Viruses
 8 <130> FILE REFERENCE: 000520wo/JH/ml
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/914,658
 C--> 11 <141> CURRENT FILING DATE: 2001-08-31
 13 <160> NUMBER OF SEQ ID NOS: 26
 15 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

732 <210> SEQ ID NO: 11
 733 <211> LENGTH: 12
 734 <212> TYPE: RNA
 735 <213> ORGANISM: Influenza B virus
 737 <400> SEQUENCE: 11
 E--> 738 nnygcuucug cu 12
 798 <210> SEQ ID NO: 17
 799 <211> LENGTH: 13
 800 <212> TYPE: RNA
 801 <213> ORGANISM: Influenza B virus
 803 <400> SEQUENCE: 17
 E--> 804 aguagwaaca rnn 13
 816 <210> SEQ ID NO: 19
 817 <211> LENGTH: 21
 818 <212> TYPE: RNA
 819 <213> ORGANISM: Influenza A virus
 821 <400> SEQUENCE: 19
 E--> 822 aguagaaaca agnnnnuuu u 21
 838 <210> SEQ ID NO: 21
 839 <211> LENGTH: 21
 840 <212> TYPE: RNA
 841 <213> ORGANISM: Influenza B virus
 843 <400> SEQUENCE: 21
 E--> 844 aguagwaaca rnnnnnnuuu u 21

Does Not Comply
 Corrected Diskette Needed
 See Error Summary Sheet

Errored

Errored

Errored

Errored

FYI: Unknown nucleotide bases must be
 described in fields 221, 222 and 223.
 Nucleotides may be described as
 "variant" or "unclear", by their location in
 the sequence and by their possible values.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/914,658

DATE: 09/20/2001

TIME: 12:36:44

Input Set : A:\000520wo.app

Output Set: N:\CRF3\09202001\I914658.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:738 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11
L:804 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17
L:822 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:19
L:835 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:835 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:844 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:21
L:870 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:23
L:870 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23
L:870 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:883 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:24
L:883 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24
L:883 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:896 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:25
L:896 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:25
L:896 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25